## **Listing of Claims**

## **CLAIMS**

1. (Original) A welding state detecting and transmitting device to be attached to a secondary side of a resistance-welding machine, the device comprising:

an electricity storage means for accumulating electric power to be supplied to components within the device;

a charging means for charging the electricity storage means by utilizing a portion of welding current supplied through the secondary side of the resistance-welding machine;

a sensor for detecting indices relating to welding state; and
a transmitting means for wirelessly transmitting data based on the indices detected by the sensor
to an external device.

- 2. (Original) A device as set forth in Claim 1, wherein electricity storage means, the charging means, the sensor, and the transmitting means are formed in a unified manner.
- 3. (Original) A device as set forth in Claim 1, wherein the charging means has a coil provided around a conductor for supplying welding current, the coil being utilized to charge the electricity storage means.
- 4. (Original) A device as set forth in Claim 1, wherein voltage between a pair of conductors for supplying welding current is utilized for charging the electricity storage means.
- 5. (Canceled)

| 6. (Canceled)   |
|---|
| 7. (Canceled)   |
| 8. (Canceled)   |
| 9. (Canceled)   |
| 10. (Canceled)  |
| 11. (Canceled)  |
| 12. (Canceled)  |
| 13. (New) A welding state detecting and transmitting device to be attached to a secondary side of a resistance-welding machine, the device comprising:  a sensor for detecting indices relating to welding state; |
| a transmitting means for wirelessly transmitting data based on the indices detected by the  |
| sensor;   |
| a controlling means for controlling detection of welding state indices in accordance with   |
| detecting conditions stored within a memory;  |
| a receiving means for receiving data wirelessly transmitted from an external device; and  |

a rewriting means for rewriting detecting conditions stored within the memory with a newly received data by the receiving means.

- 14. (New) A welding state detecting and transmitting device to be attached to a secondary side of a resistance-welding machine, the device comprising:
  - a sensor for detecting indices relating to welding state;
- a transmitting means for wirelessly transmitting data based on the indices detected by the sensor;
  - a controlling means for controlling transmission of the detected welding state indices in accordance with transmitting conditions stored within a memory;
- a receiving means for receiving data wirelessly transmitted from an external device; and a rewriting means for rewriting transmitting conditions stored within the memory with a newly received data by the receiving means.
- 15. (New) A welding state detecting and transmitting device to be attached to a secondary side of a resistance-welding machine, the device comprising:
  - a sensor for detecting indices relating to welding state;
- a transmitting means for wirelessly transmitting data based on the indices detected by the sensor;
- a controlling means for controlling the welding state detecting and transmitting device in accordance with an operating program stored within a memory;
- a receiving means for receiving an operating program wirelessly transmitted from an external device; and

a rewriting means for rewriting the operating program stored within the memory with a newly received operating program by the receiving means.

16. (New) A welding state detecting system comprising the welding state detecting and transmitting device as set forth in Claims 13, 14 or 15, further comprising an external device for receiving a transmitted data, wherein the external device comprises:

a receiving means for receiving the data wirelessly transmitted from the welding state detecting and transmitting device; and

a processing means for processing the received data and generating and outputting the processed data.

- 17. (New) A welding state detecting and transmitting device to be attached to a secondary side of a resistance-welding machine, the device comprising:
  - a sensor for detecting indices relating to welding state;
  - a memory for storing data based on the indices detected by the sensor;
- a receiving means for receiving a data request signal wirelessly transmitted from an external device;
- a means for extracting the data from the memory in accordance with the received data request signal; and
  - a means for wirelessly transmitting the extracted data to the external device.

18. (New) A welding state detecting system comprising the welding state detecting and transmitting device as set forth in Claim 17 and an external device for receiving a transmitted data, wherein the external device comprises:

a means for wirelessly transmitting the data request signal to the welding state detecting and transmitting device;

a receiving means for receiving the data wirelessly transmitted from the welding state detecting and transmitting device; and

a processing means for processing the received data and generating and outputting the processed data.

- 19. (New) A system as set forth in Claim 18, wherein the external device further comprises a control means for controlling the resistance-welding machine in accordance with the received data.
- 20. (New) A welding state detecting device to be attached to a secondary side of a resistance-welding machine, the device comprising:

an electricity storage means for accumulating electric power to be supplied to components within the device;

a charging means for charging the electricity storage means by utilizing a portion of welding current supplied through the secondary side of the resistance-welding machine; and a sensor for detecting indices relating to welding state.